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## (54) DRAWING OF HIGH-DENSITY POLYETHYLENE

### (57)Abstract:

PURPOSE: To obtain a fiber having high strength and density in one drawing stage by preheating a raw fiber made of a specific high-density PE without drawing and continuously drawing the treated fiber in a liquid thermal medium for drawing.

CONSTITUTION: A raw fiber made of a high-density PE having a weight-average molecular weight of 100,000-400,000 (preferably 130,000-400,000), a ratio of weight-average molecular weight/number-average molecular weight of 2-7 (preferably 3-4) and a density of  $\geq 0.940$  is preheated without drawing and the treated fiber is continuously drawn in a drawing zone of  $\leq 30$ cm long in a liquid thermal medium heated at  $\geq 100^{\circ}\text{C}$ .

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